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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,843	07/08/2003	William Cole	P01029US2A(FIR.334)	9146
7590	12/29/2004		EXAMINER	CHOI, LING SIU
Chief Intellectual Property Counsel Bridgestone/Firestone Americas Holding, Inc. 1200 Firestone Parkway Akron, OH 44317-0001			ART UNIT	PAPER NUMBER
			1713	
DATE MAILED: 12/29/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/614,843	COLE, WILLIAM	
	Examiner Ling-Siu Choi	Art Unit 1713	

-- Th MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on _____.
2a) This action is **FINAL**. 2b) This action is non-final.
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4 is/are pending in the application.
4a) Of the above claim(s) 3 and 4 is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1 and 2 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 08 July 2003 is/are: a) accepted or b) objected to by the Examiner.

 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 10/20/2003.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____ .

DETAILED ACTION

Election/Restriction

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-2, drawn to a process for hydrogenation of a polymer, classified in class 525, subclass 338.
 - II. Claims 3-4, drawn to an apparatus for the hydrogenation of a polymer, classified in class 422, subclass 129.
2. The inventions are distinct, each from the other because of the following reasons:
Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the process as claimed can be practiced by another materially different apparatus such as one disclosed by Moller (WO 96/01304) on lines 10-15 of page 2.
3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

4. During a telephone conversation with Mr. Mark L. Weber on November 12, 2004, a provisional election was made with traverse to prosecute the invention of Group I, claims 3-4. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-2 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Moller (WO 96/01304) in view of Benoit et al. (US 6,087,003).

The present invention relates to a process for the hydrogenation of a polymer, comprising the steps of

A	providing a polymer solution of at least one polymer in at least one solvent
B	metering hydrogen gas and an hydrogenation catalyst solution into the polymer solution to create a reaction mixture
C	pressurizing and heating the reaction mixture such that the contents of the reaction mixture exist in the supercritical phase
D	hydrogenating the at least one polymer while the contents of the reaction mixture are in the supercritical phase

(summary of claim 1)

Moller discloses a process to hydrogenate a polymer, comprising (a) bringing a mixture of solvent, substrate, hydrogen, and reaction product to a supercritical state to achieve a substantially homogeneous solution and (b) contacting the resulting substantially homogeneous solution wherein the substrate is a lipid (abstract; claim 1).

The difference between the present claims and the disclosure of Moller is the requirement of a polymer to be used as the substrate in the present claims.

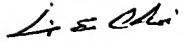
Benoit et al. disclose a method to deposit a coating material dissolved in a supercritical fluid, wherein the coating material can be lipid, natural polymer, or synthetic organic polymer (abstract; col.4, lines 45-67; col.5, lines 1-4). A conclusion can be drawn that the use of a lipid is equivalent to or exchangeable with the use of a polymer in the supercritical fluid. Thus, it would have been obvious to one of ordinary skill in the

art at the time the invention was made to apply the process disclosed by Moller to a polymer because of the expected success resulted from the equivalence and exchange of a lipid and a polymer in the supercritical process and thereby obtain the present invention.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be reach on 571-272-1114.



LING-SUI CHOI
PRIMARY EXAMINER

December 20, 2004